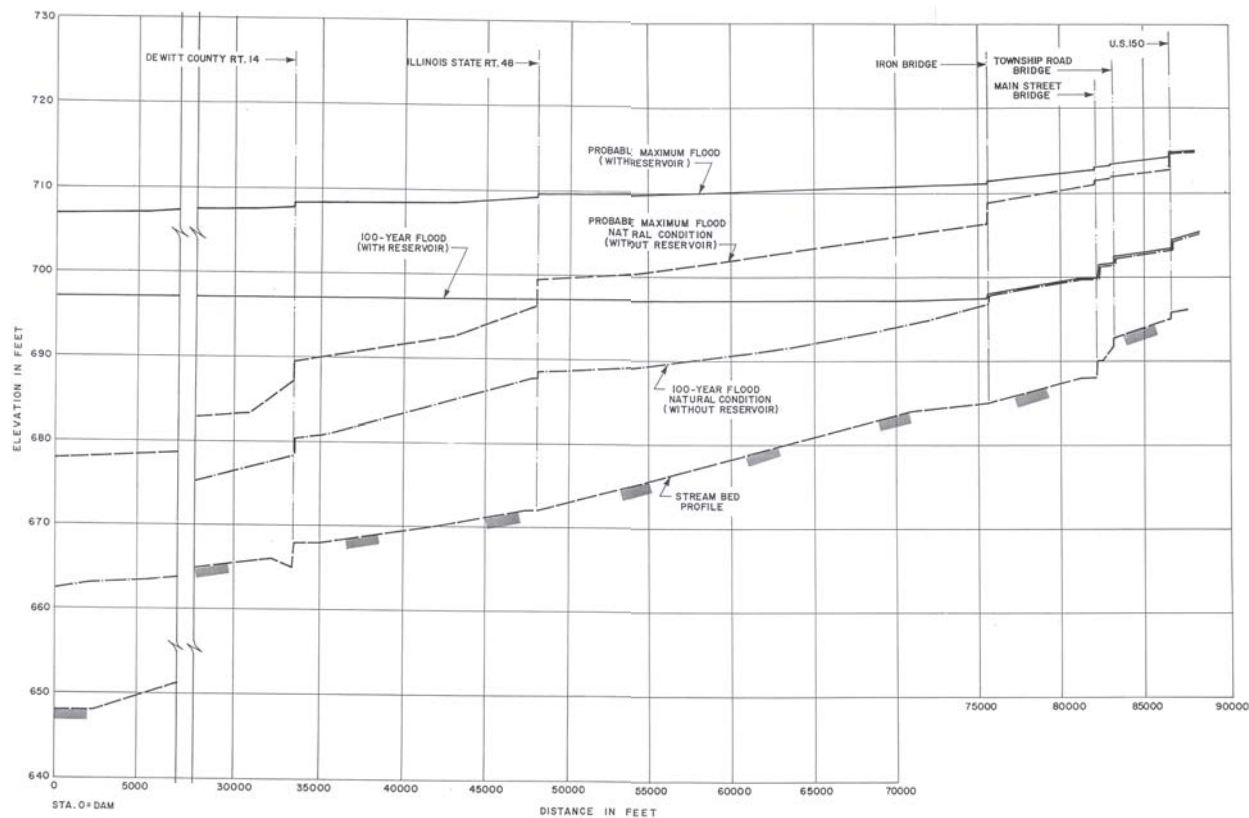


Site Safety Analysis Report for
the EGC Early Site Permit

Figure 2.4-7
Water Surface Profiles
Salt Creek



Legend

Data Source:
CPS, 1982

Not to Scale

**Figure 2.4-8
Water Surface Profiles
of North Fork Salt Creek**

Data Source:
CPS, 1982

ILLINOIS CENTRAL RAILROAD
ILLINOIS STATE ROUTE 54
CLINTON POWER STATION
(GRADE EL. 736.0')

PROBABLE MAXIMUM FLOOD
(WITH RESERVOIR)

100-YEAR FLOOD
(WITH RESERVOIR)

PROBABLE MAXIMUM FLOOD
NATURAL CONDITION
(WITHOUT RESERVOIR)

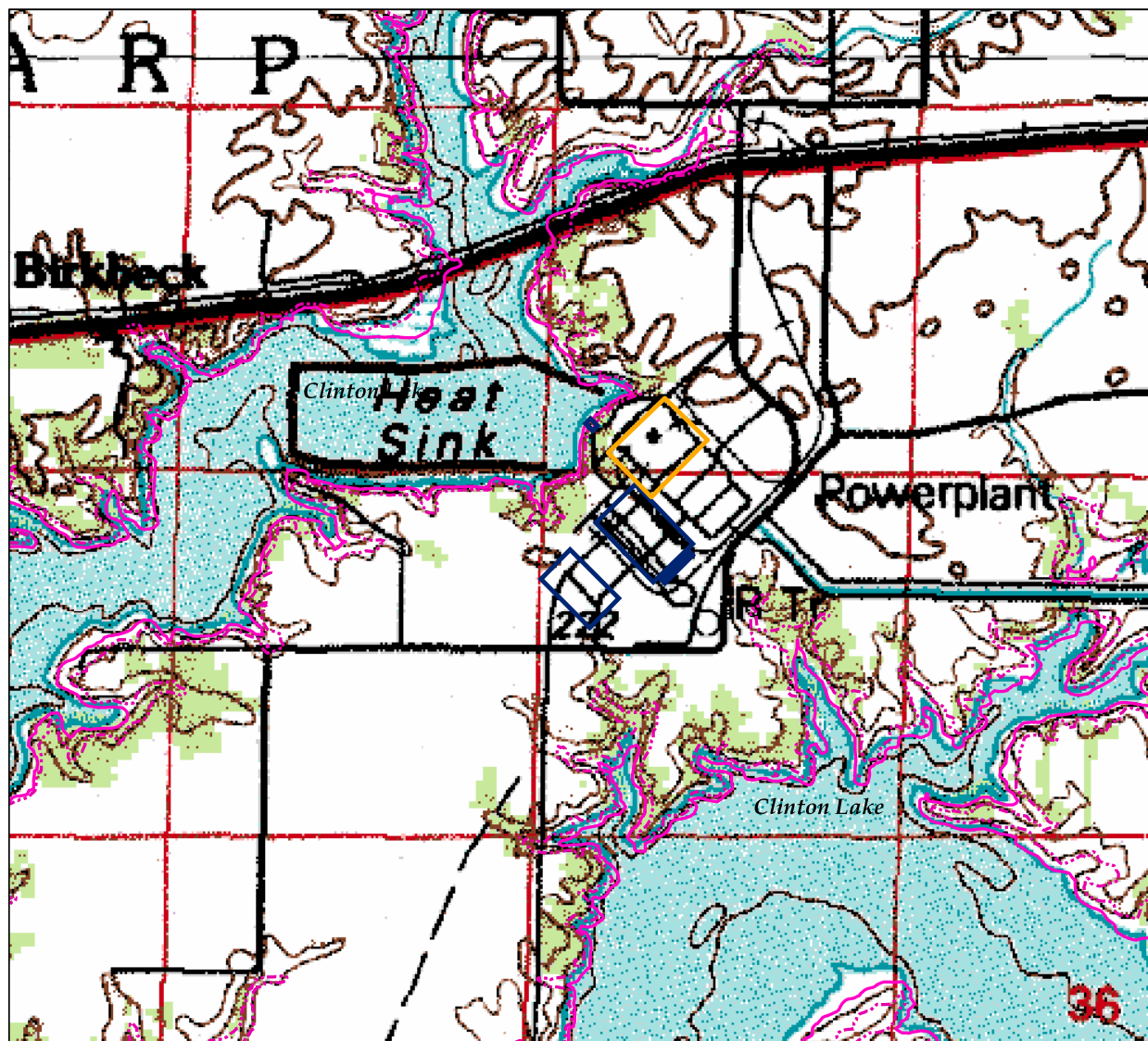
100-YEAR FLOOD
NATURAL CONDITION
(WITHOUT RESERVOIR)

STREAM BED
PROFILE

ELEVATION IN FEET

DISTANCE IN FEET

STA. 0 = 2000' UPSTREAM OF DAM



Site Safety Analysis Report for
the EGC Early Site Permit

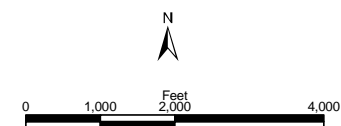
**Figure 2.4-9
Flood Prone Area**

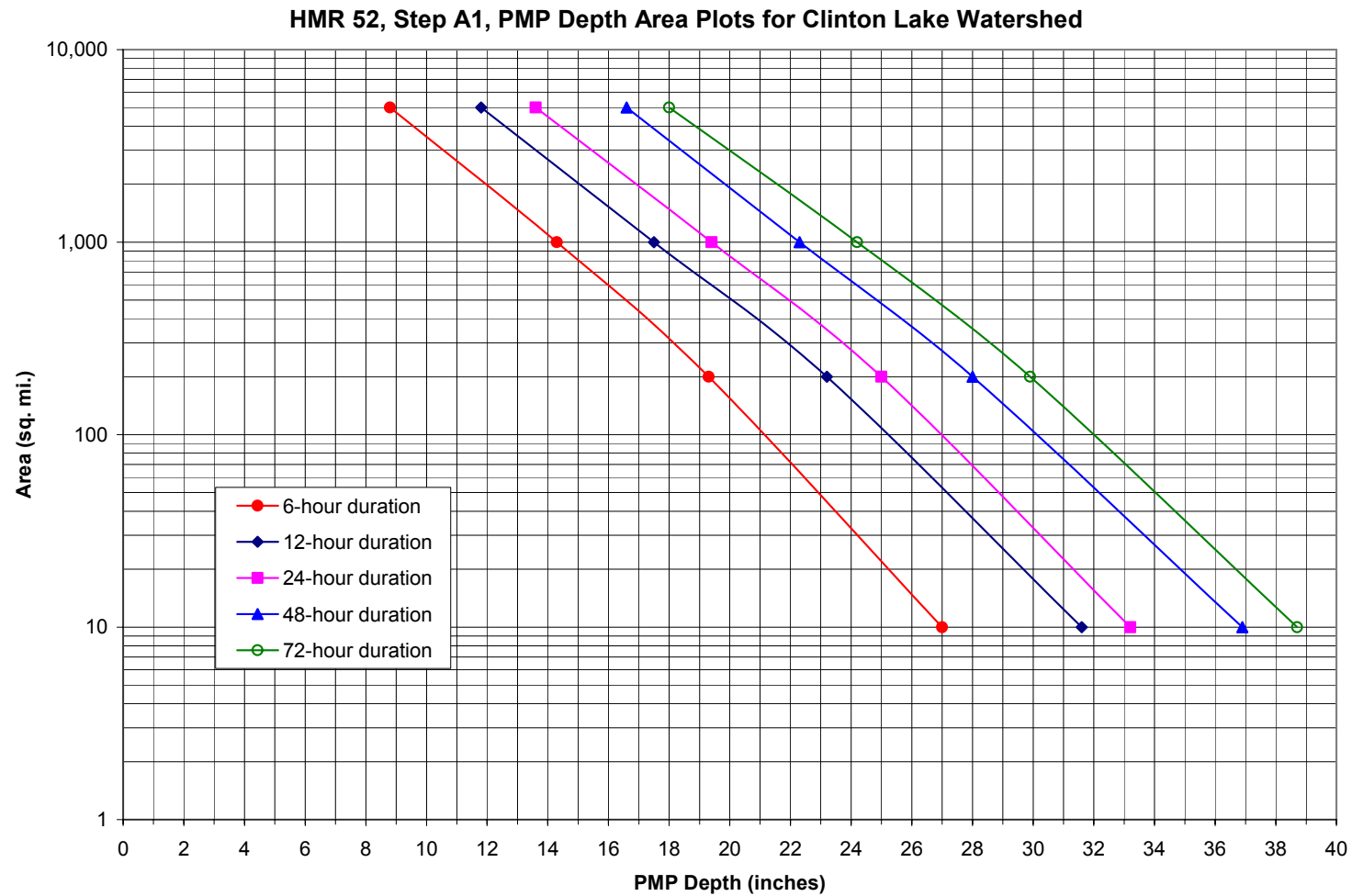
Legend

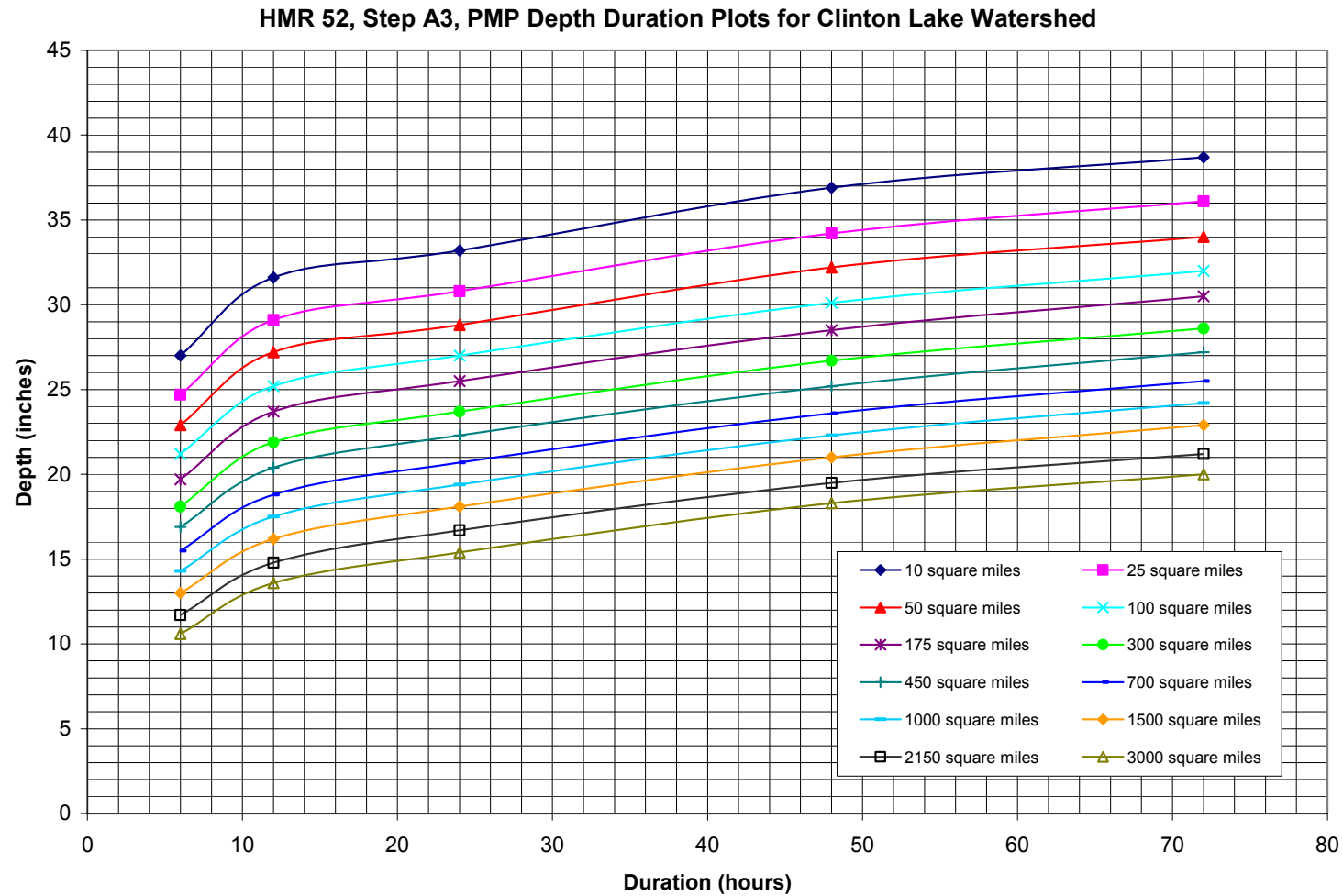
- CPS Facility
- Proposed Areas for EGC ESP Facility Structures
- 100-year Flood Zone Boundary
- Probable Maximum Flood Zone Boundary (709.8 ft)

Note: The Probable Maximum Flood Zone Boundary and the 100-year Flood Zone Boundary were derived from USGS National Digital Elevation Model Data. The Probable Maximum Flood Elevation is 709.8 ft (216m). The 100-year flood is 697 ft (212m). Variations in mapping accuracy between the map base and the flood boundaries derived from the USGS Digital Elevation Model are apparent in locations on the map.

Data Sources:
USGS, 1984 and 1989
USGS, 1999
ISWS, 1996
CPS, 2002







Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-10c
Six-Hour Incremental
Rainfall Depth Smoothing

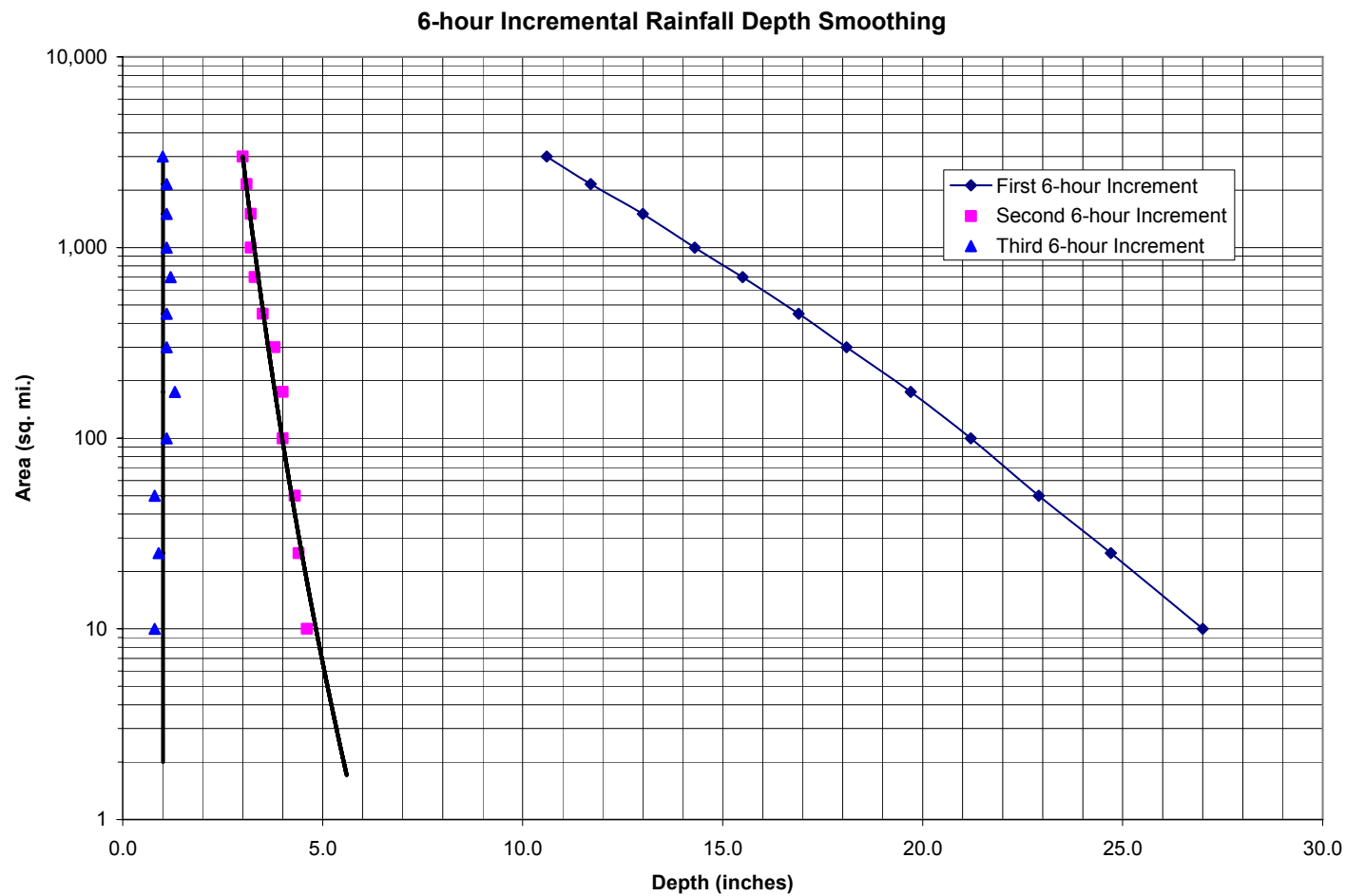


FIGURE 2.4-11
SCS Curve Number Based
Infiltration and Constant
Infiltration Rate

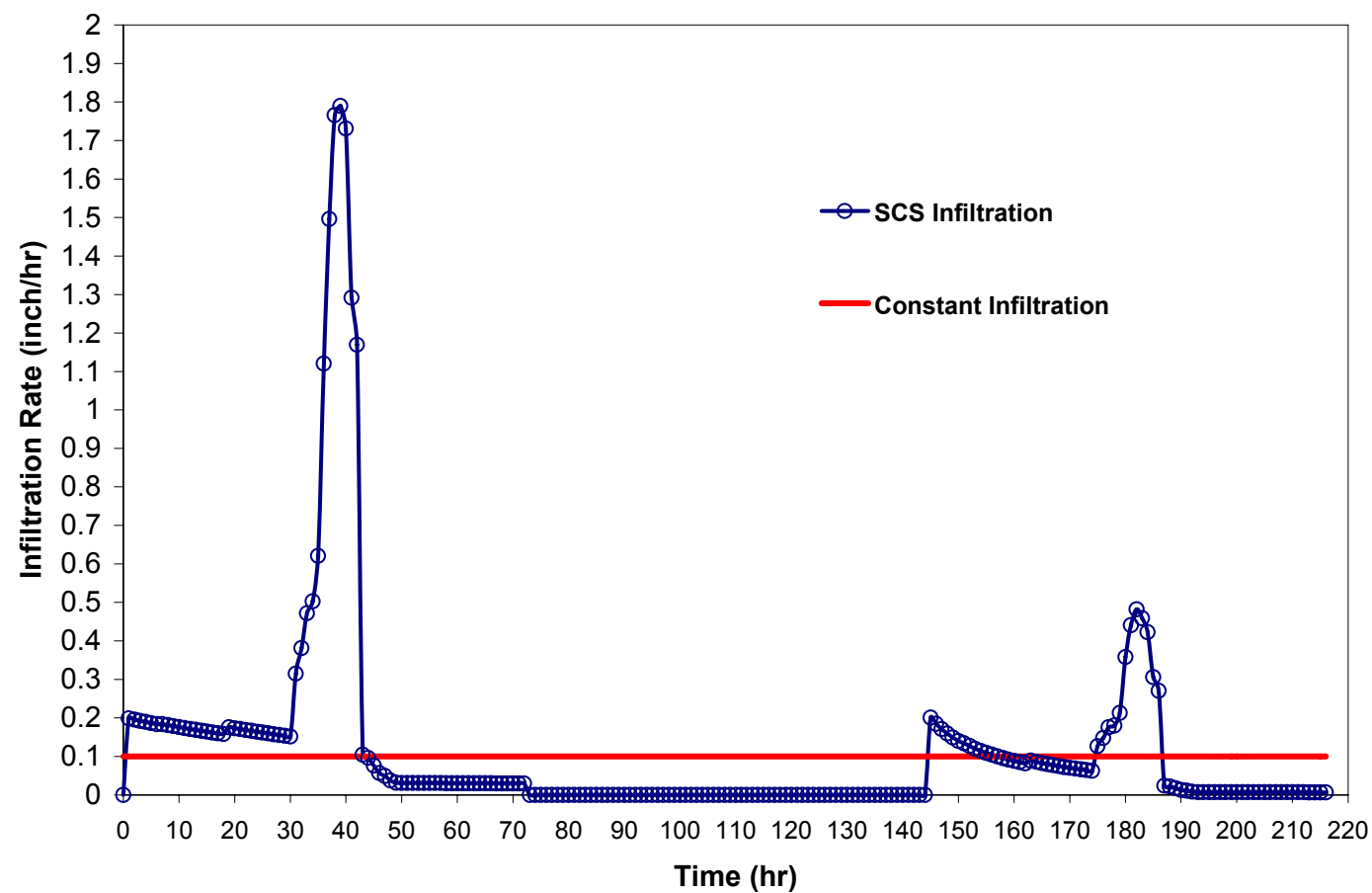


FIGURE 2.4-12

Two-Basin + Lake Model Schematic

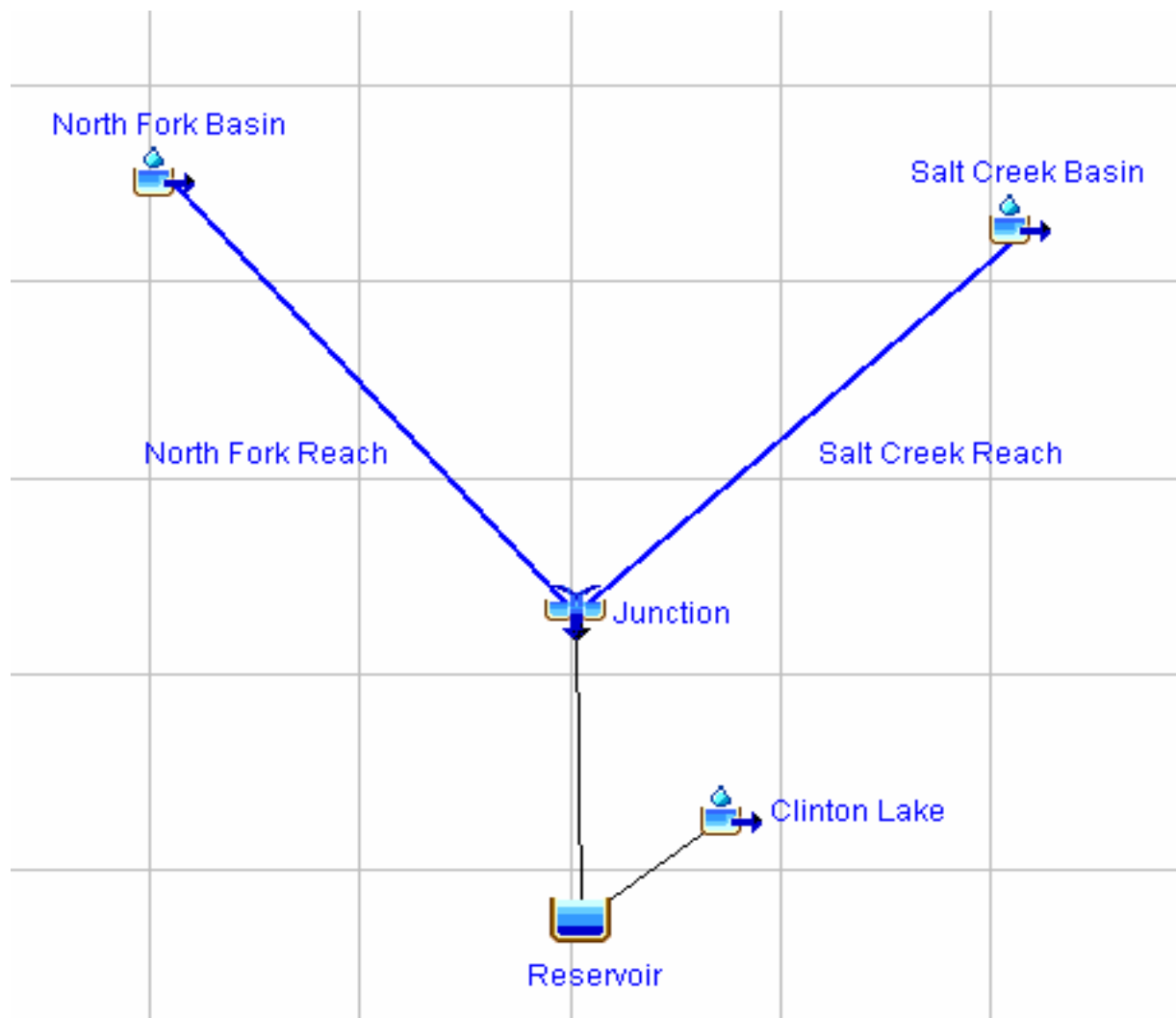
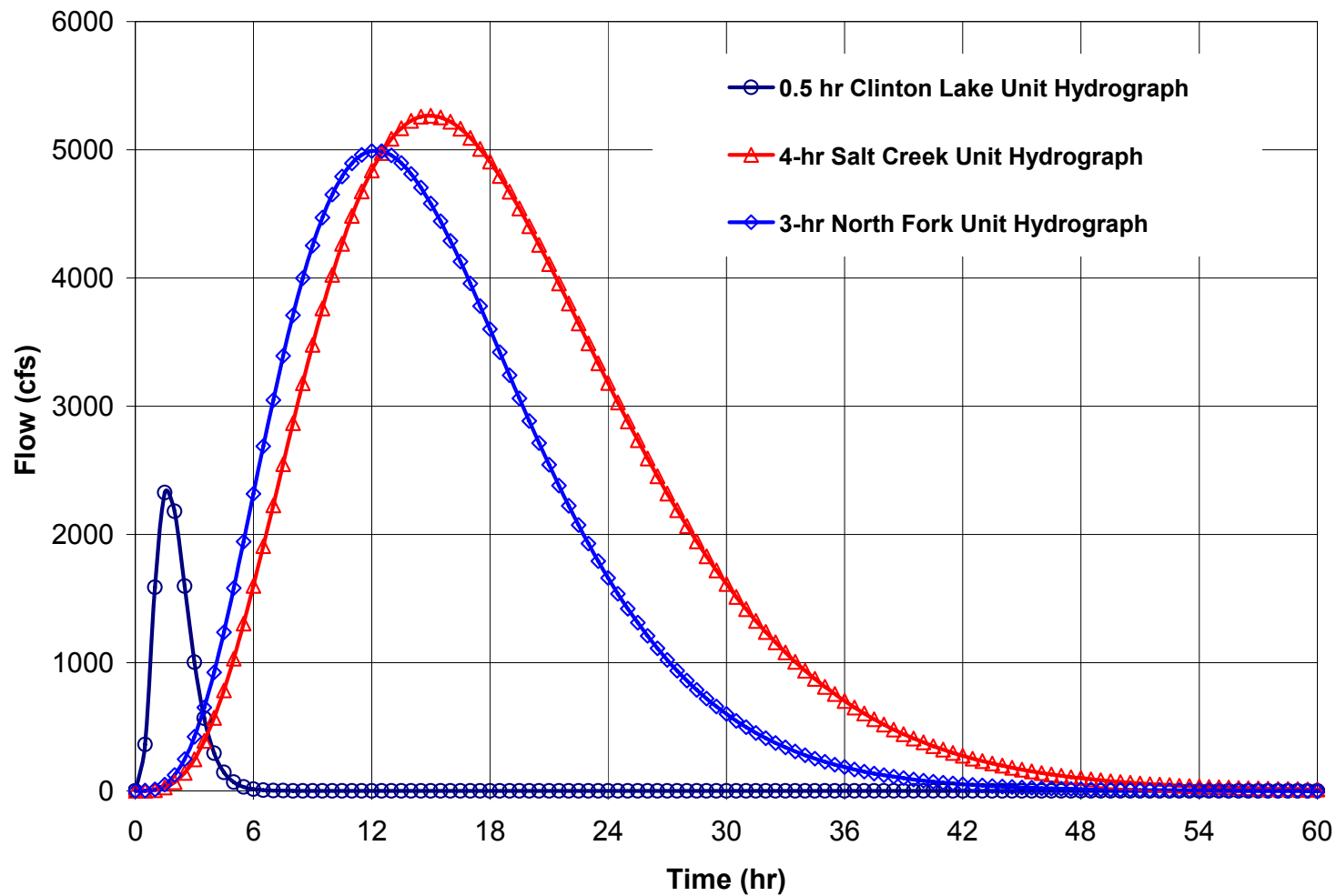
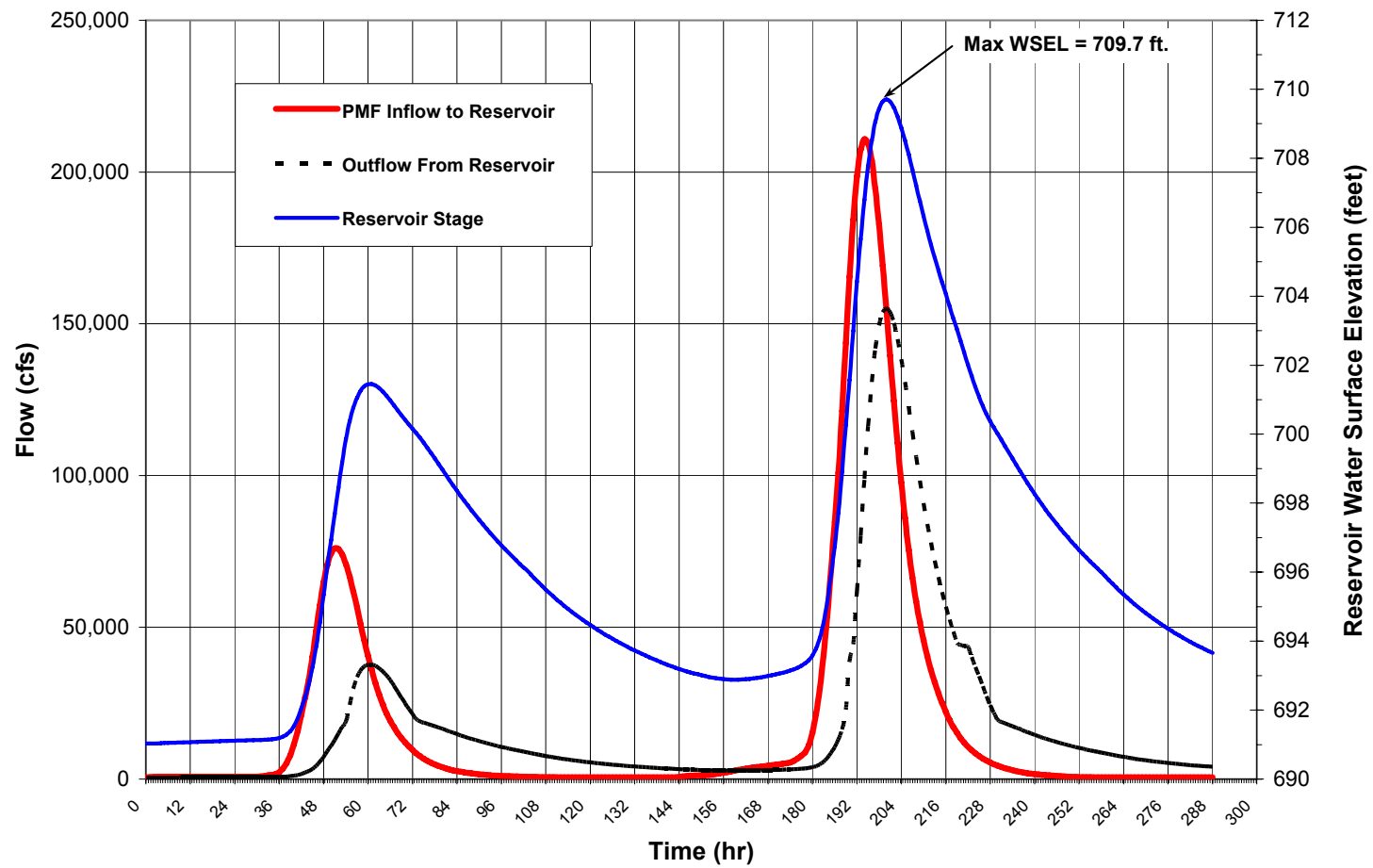


FIGURE 2.4-13

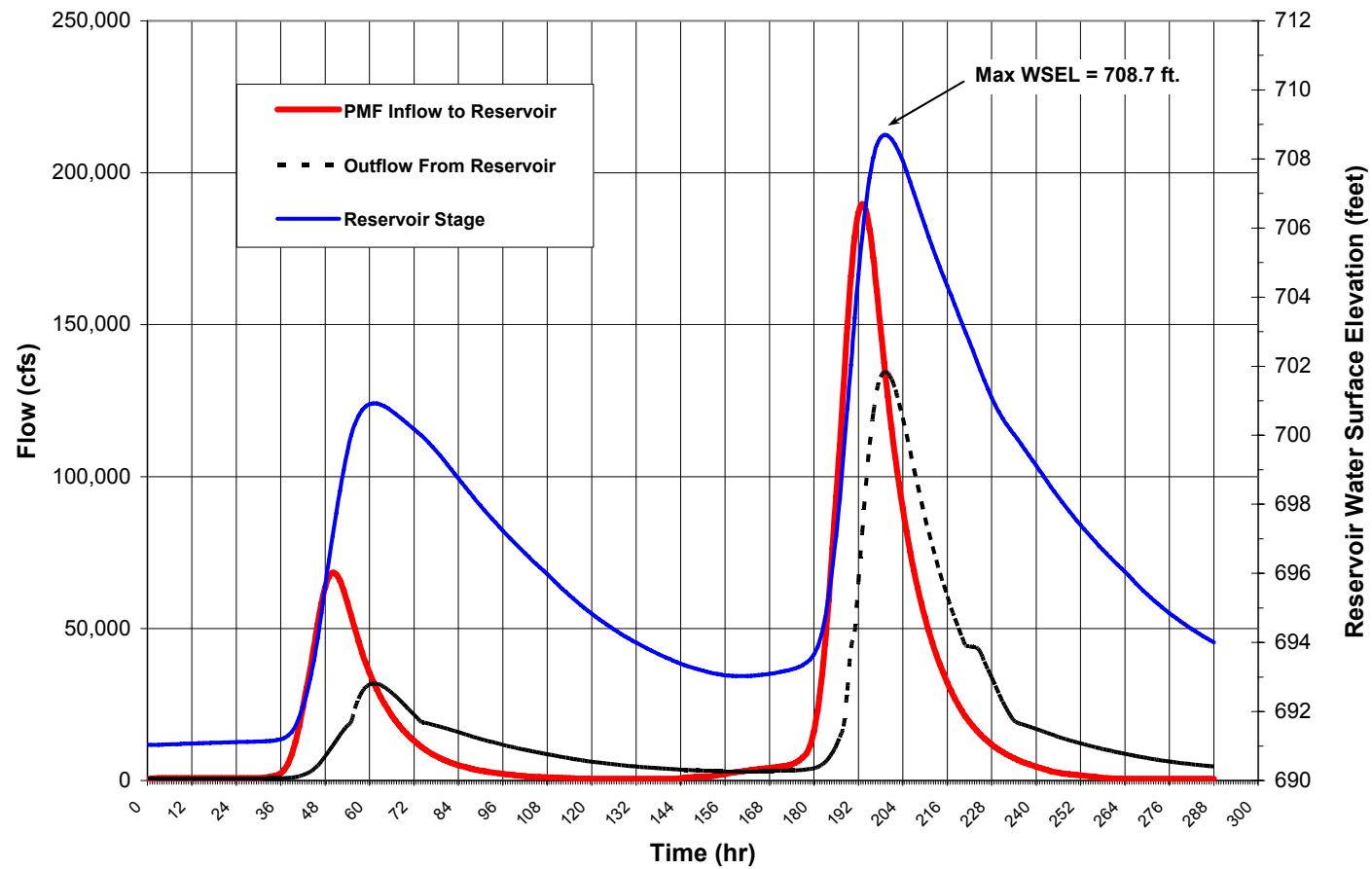
**Unit Hydrographs for
Salt Creek, North Fork,
and Clinton Lake
Watersheds**



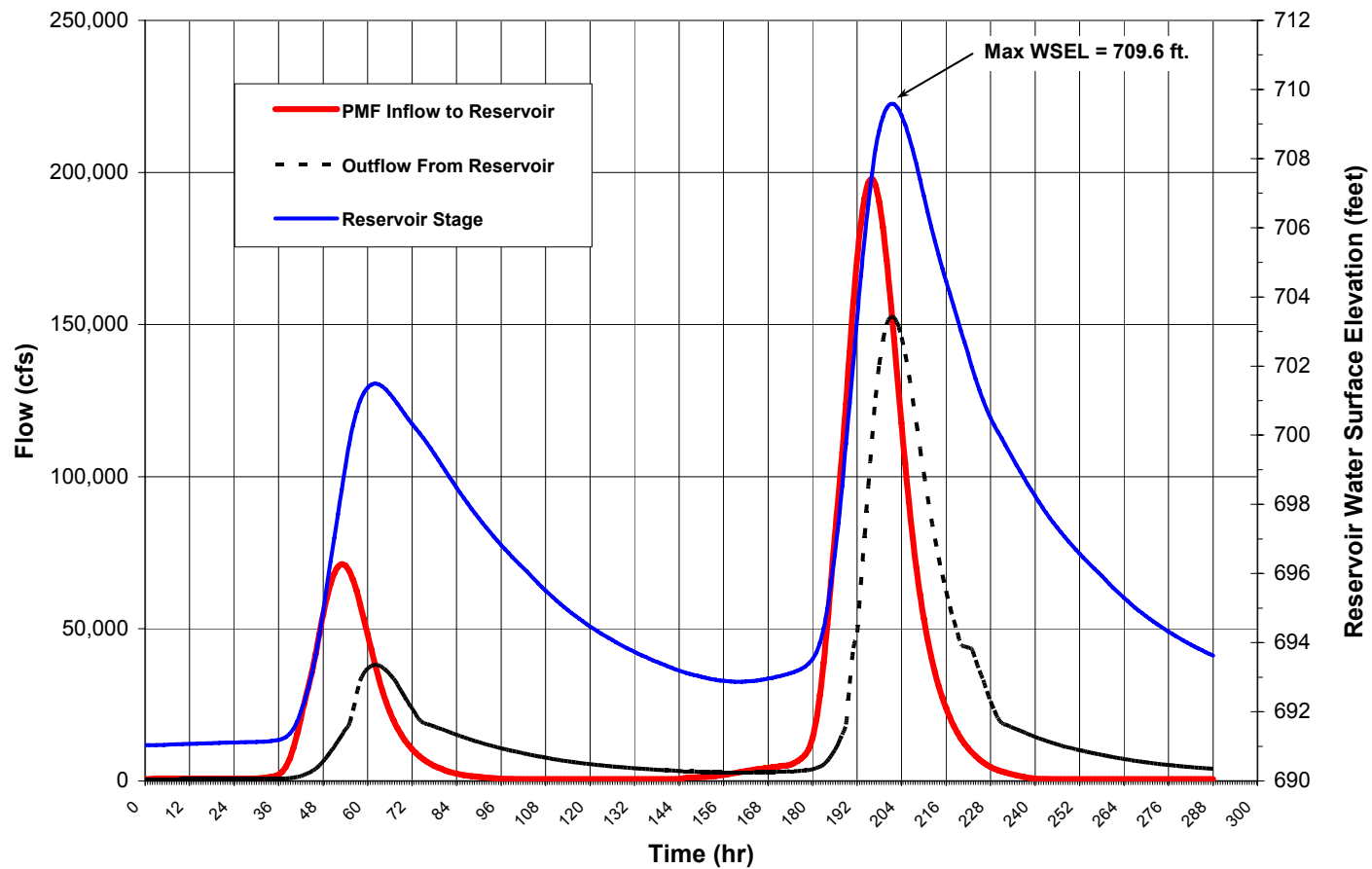
Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-14a
HEC-HMS Results Using
SCS Hydrograph Method
for Two-Basin Model



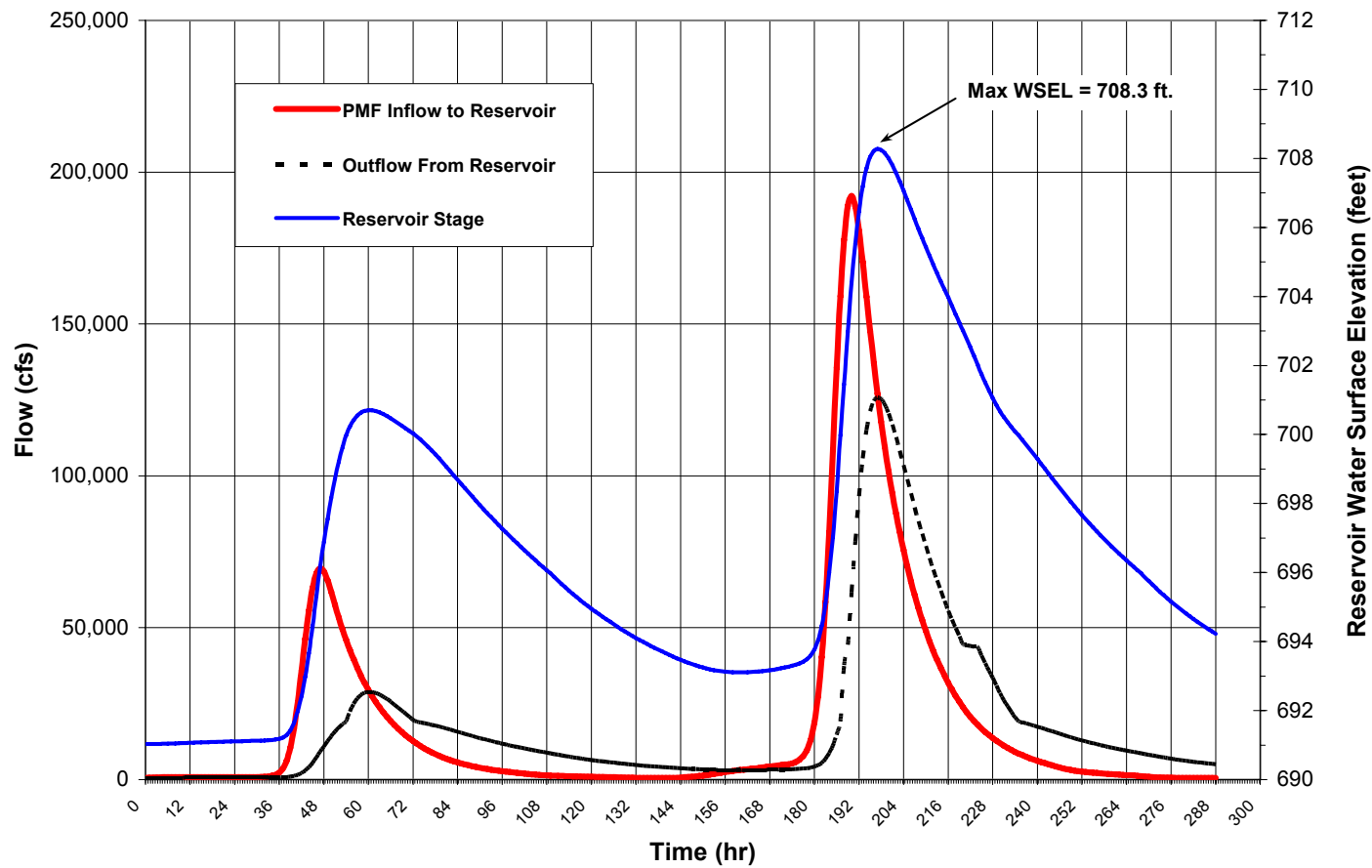
Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-14b
HEC-HMS Results Using
Snyder's Hydrograph
Method with Peaking Factor
0.6 for Two-Basin Model



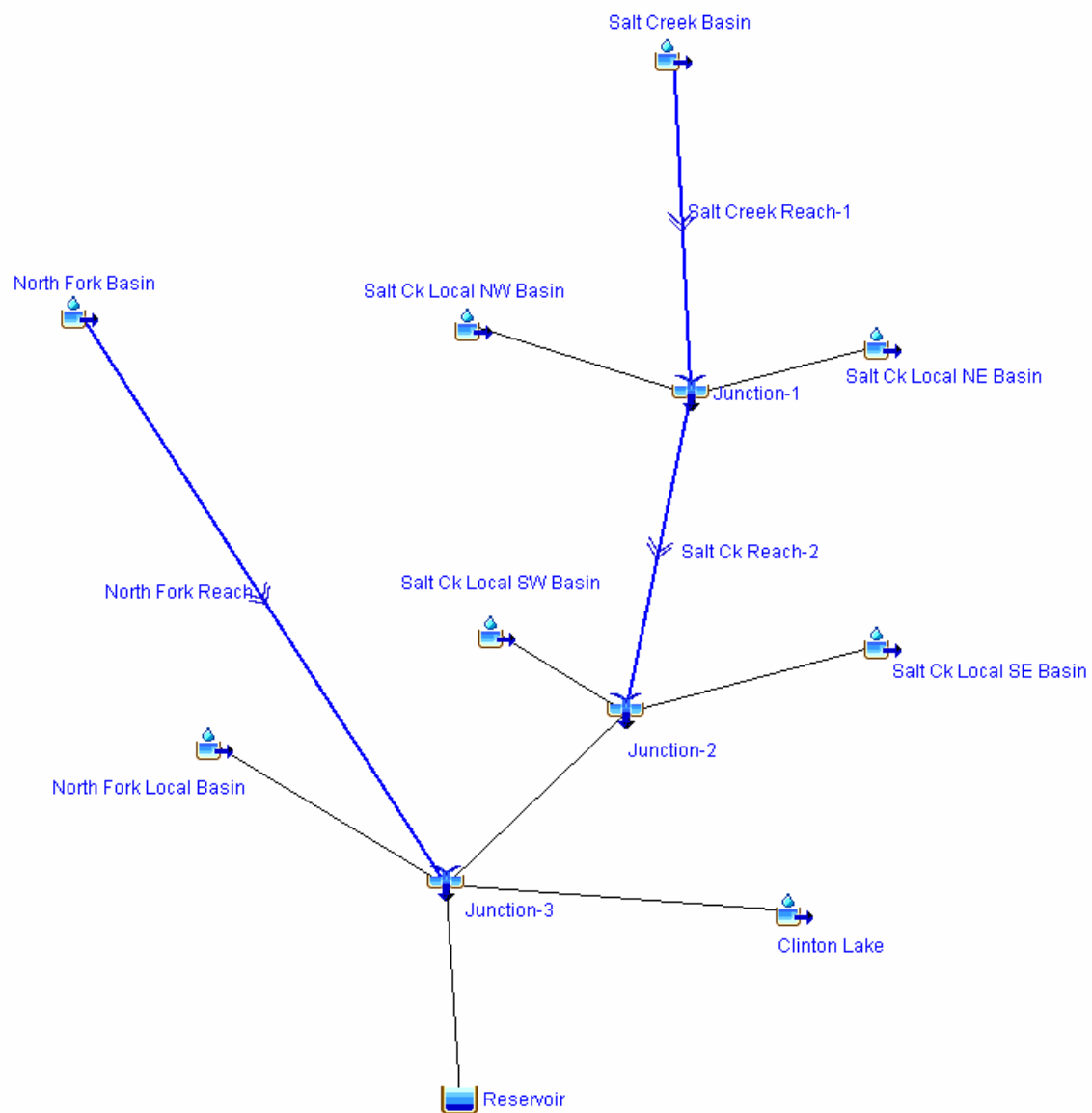
Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-14c
HEC-HMS Results Using
Snyder's Hydrograph
Method with Peaking Factor
0.8 for Two-Basin Model

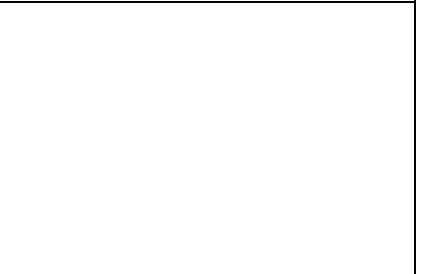


Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-14d
HEC-HMS Results Using
Snyder's Hydrograph
Method with Peaking Factor
0.4 for Two-Basin Model

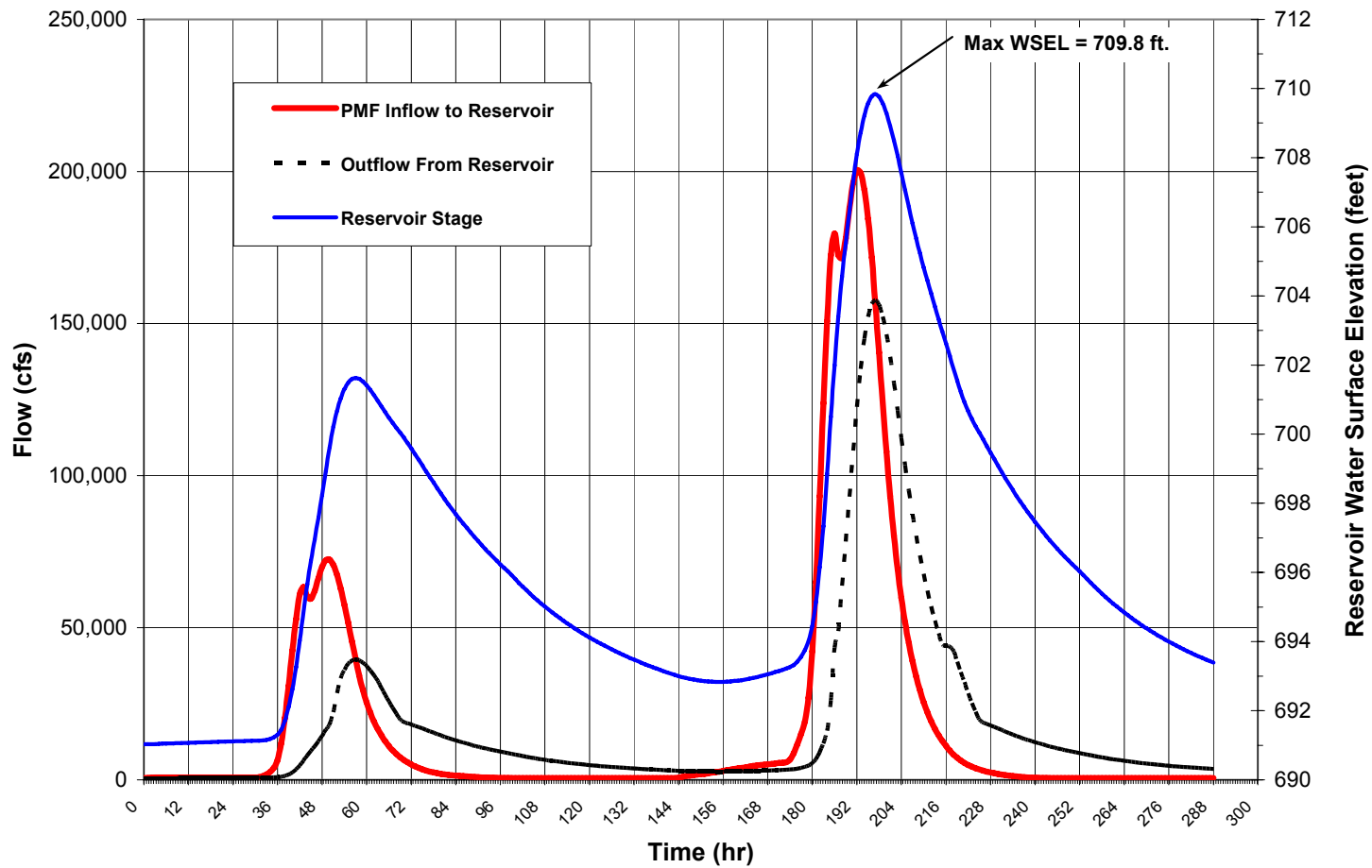


Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-15
Seven-Basin + Lake Model
Schematic

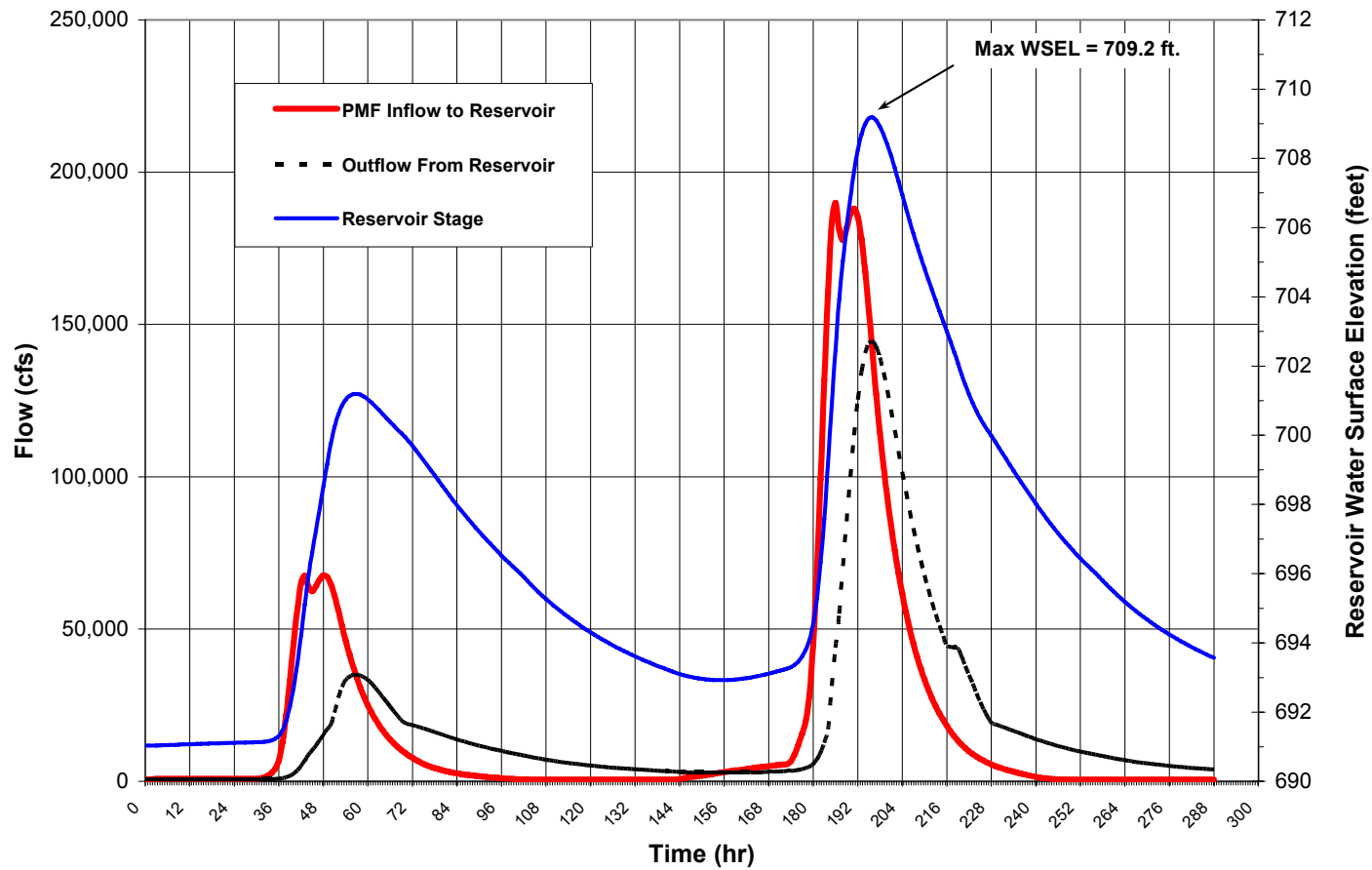


[illegible]

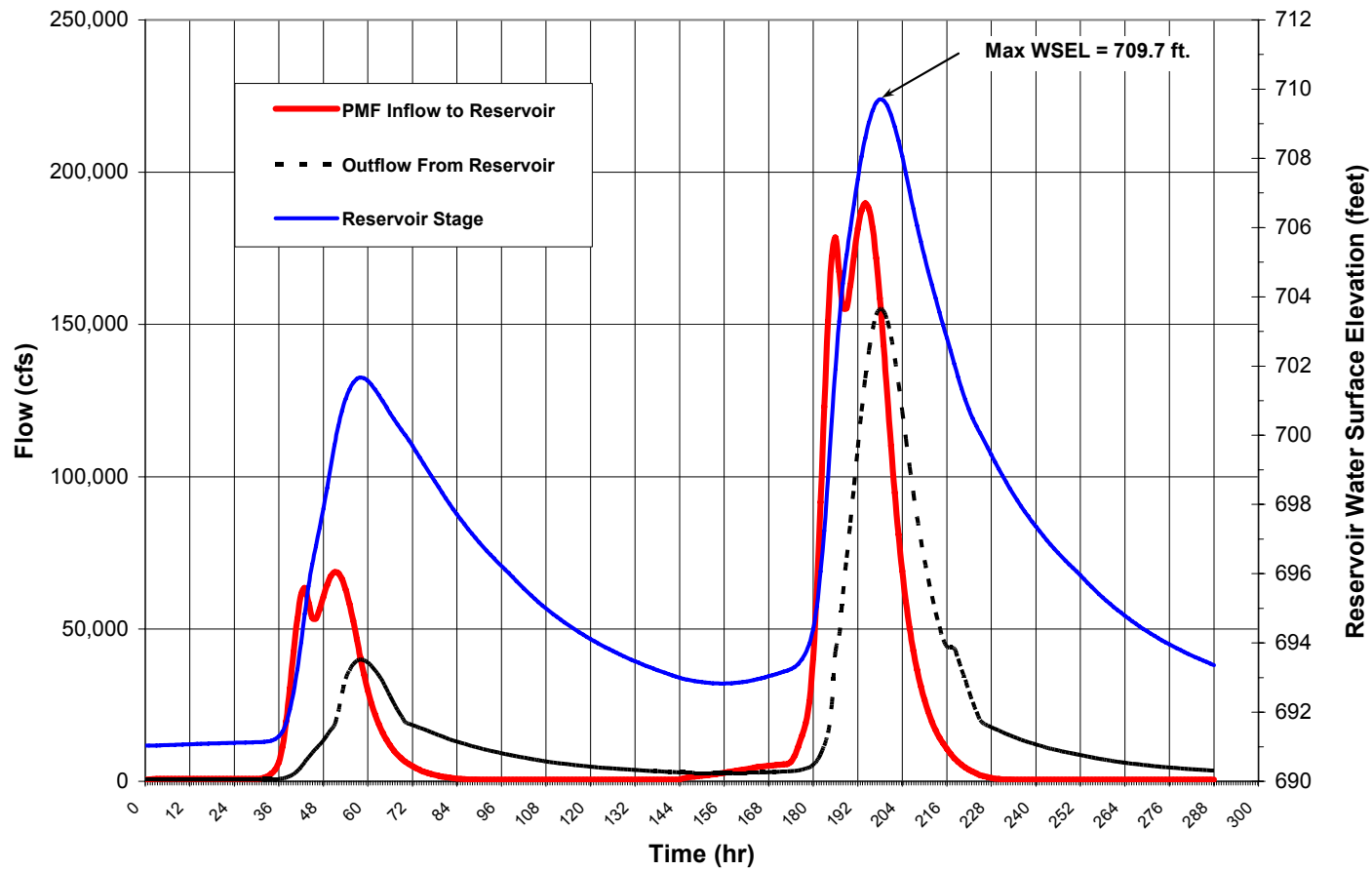
Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-17a
HEC-HMS Results Using
SCS Hydrograph Method
for Seven-Basin Model



Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-17b
HEC-HMS Results Using
Snyder's Hydrograph
Method with Peaking Factor
0.6 for Seven-Basin Model



Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-17c
HEC-HMS Results Using
Snyder's Hydrograph
Method with Peaking Factor
0.8 for Seven-Basin Model



Site Safety Analysis Report for
the EGC Early Site Permit
FIGURE 2.4-17d
HEC-HMS Results Using
Snyder's Hydrograph
Method with Peaking Factor
0.4 for Seven-Basin Model

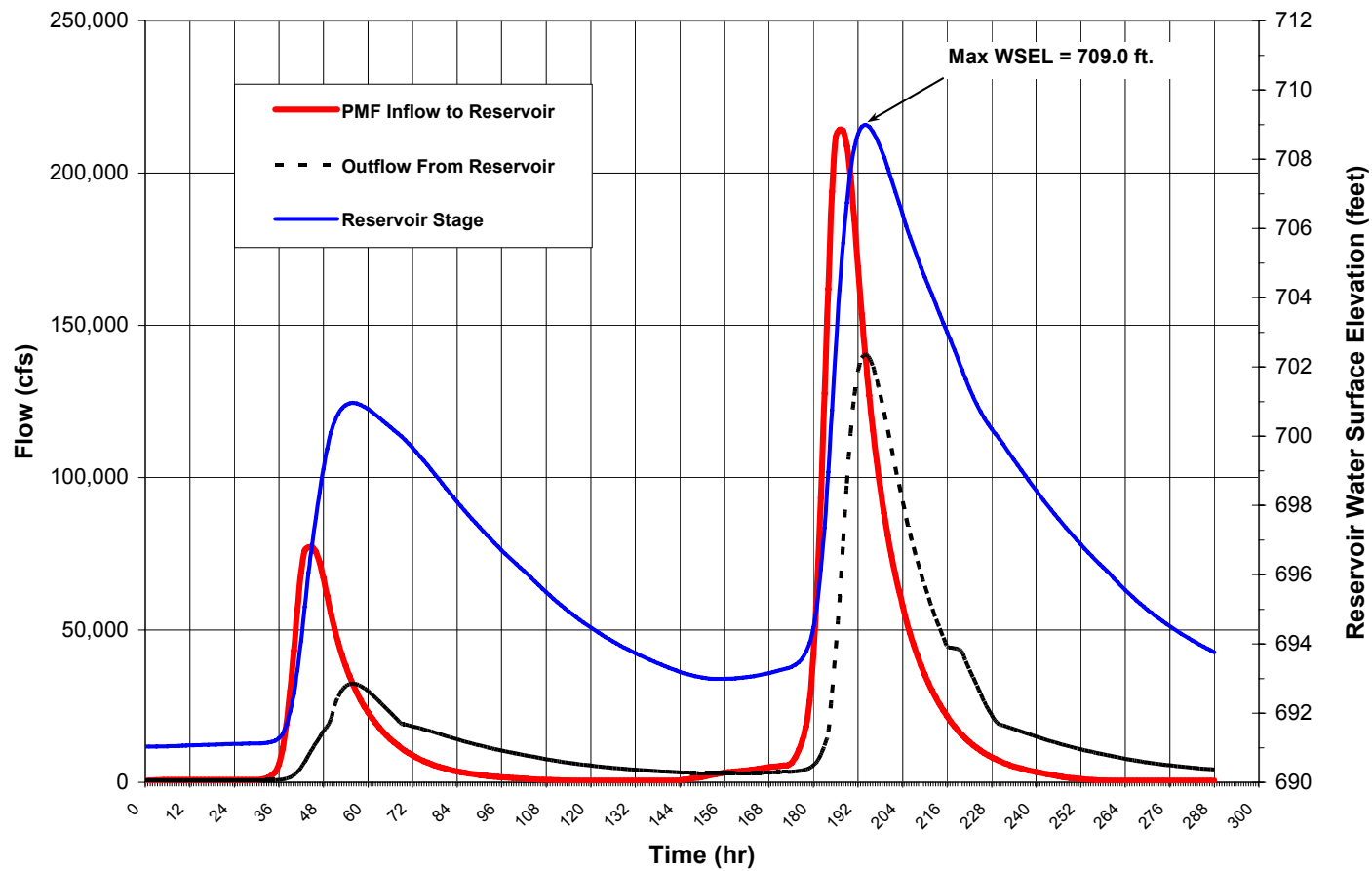
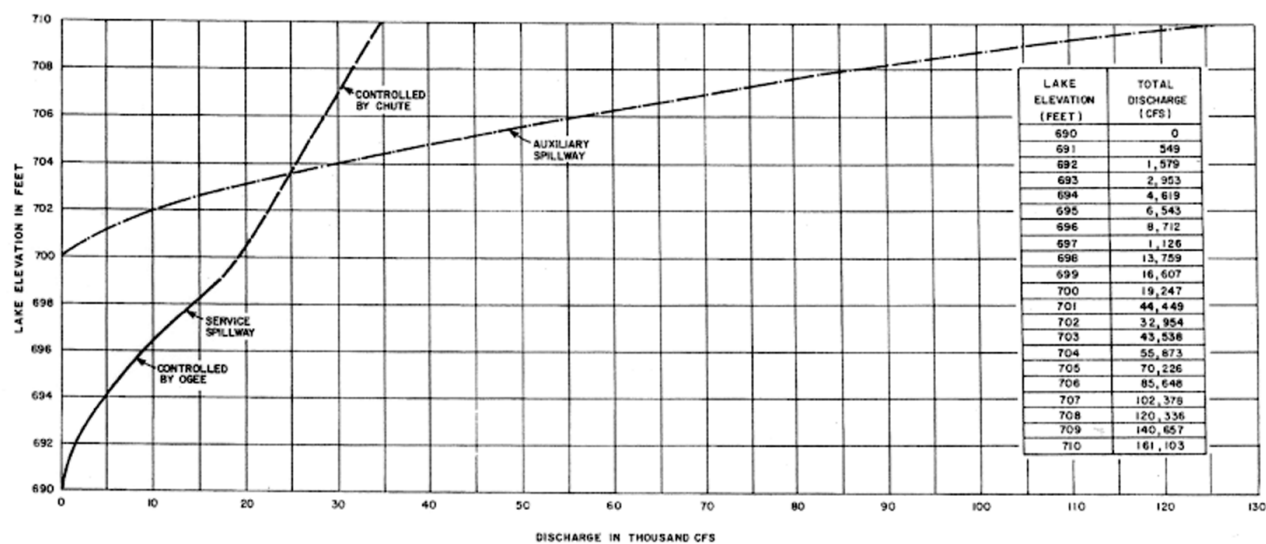


Figure 2.4-18
Spillway Rating Curves

Legend

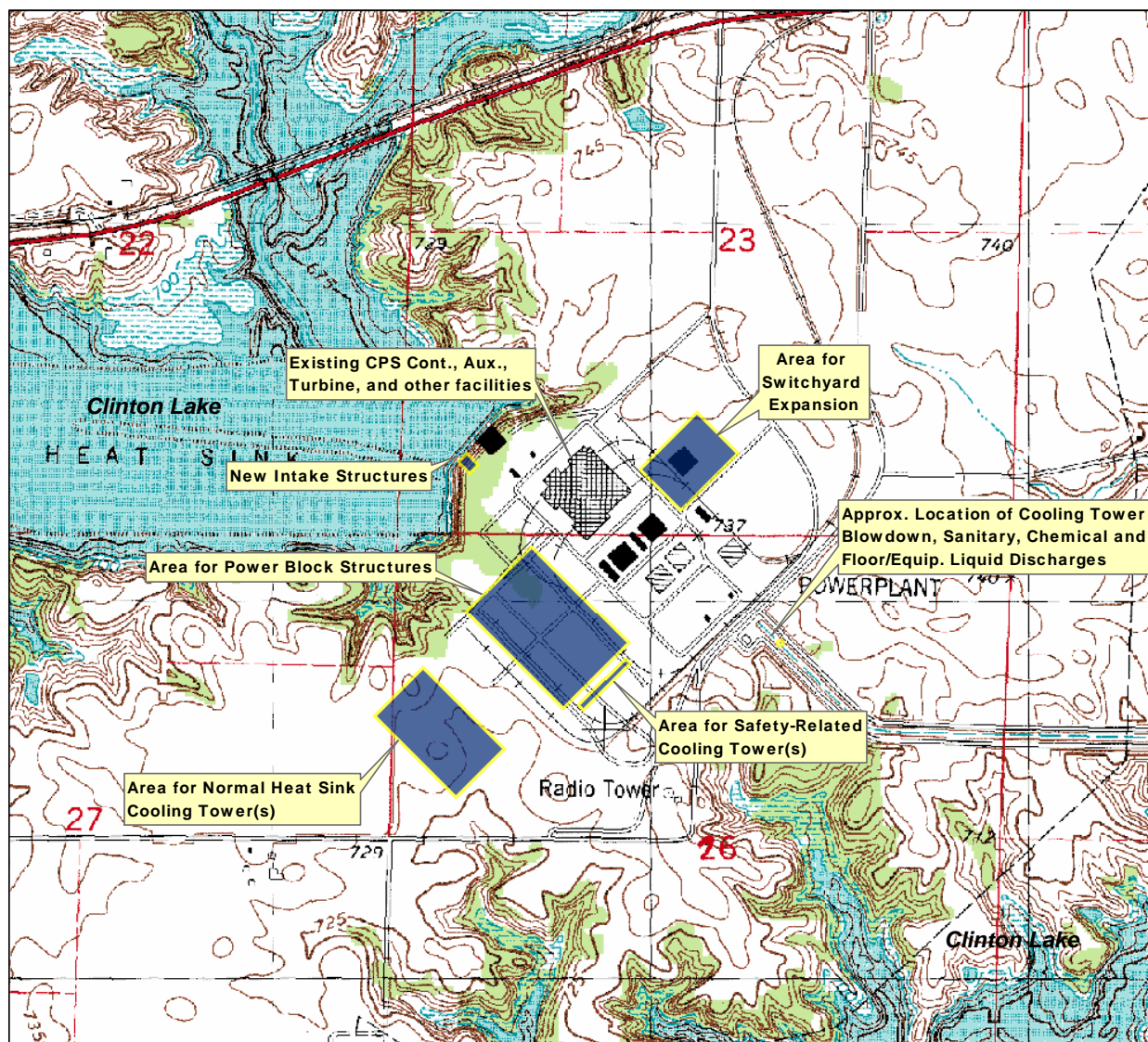


Data Source
CPS, 2002

Not to Scale

Site Safety Analysis Report for
the EGC Early Site Permit

Figure 2.4-19
Proposed Areas for
EGC ESP Structures



Legend

■ Proposed Areas for EGC ESP Facility Structures

Data Sources:
USGS, 1979

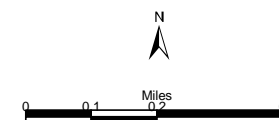
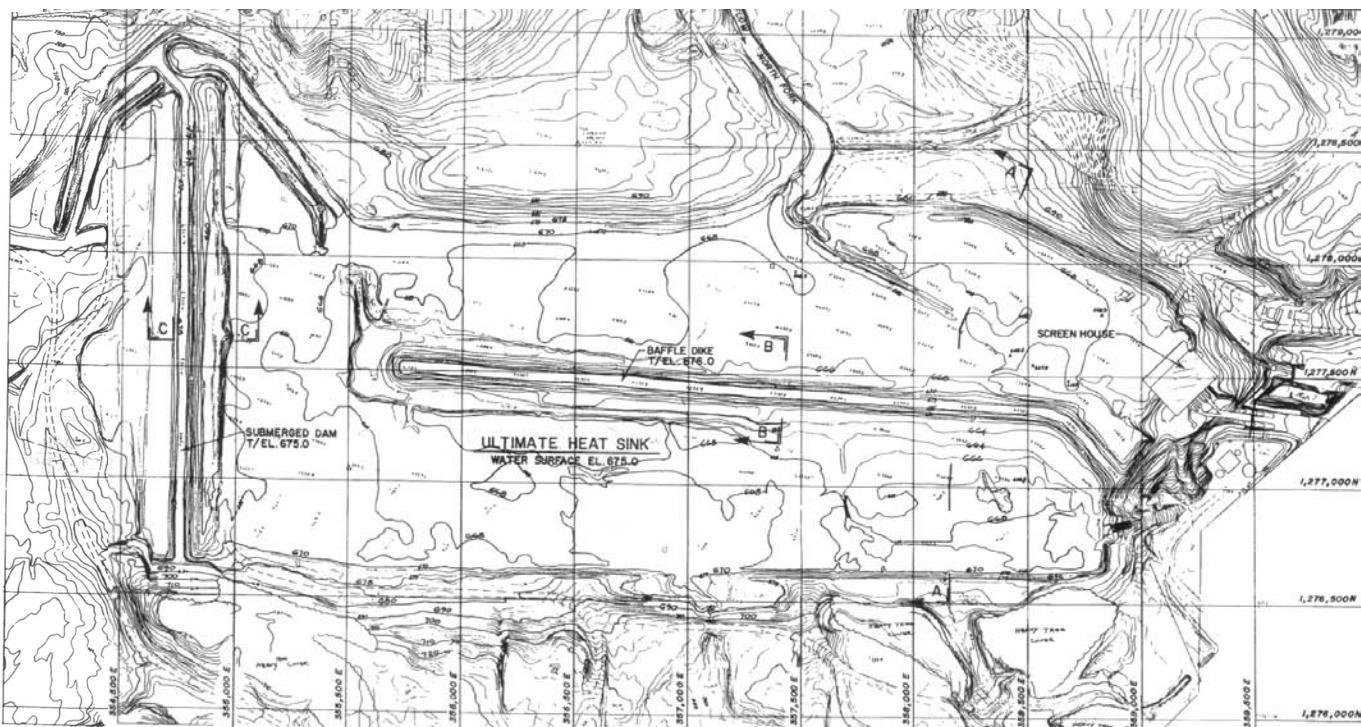


Figure 2.4-20
CPS Ultimate Heat Sink Plan

Legend



NOTES:

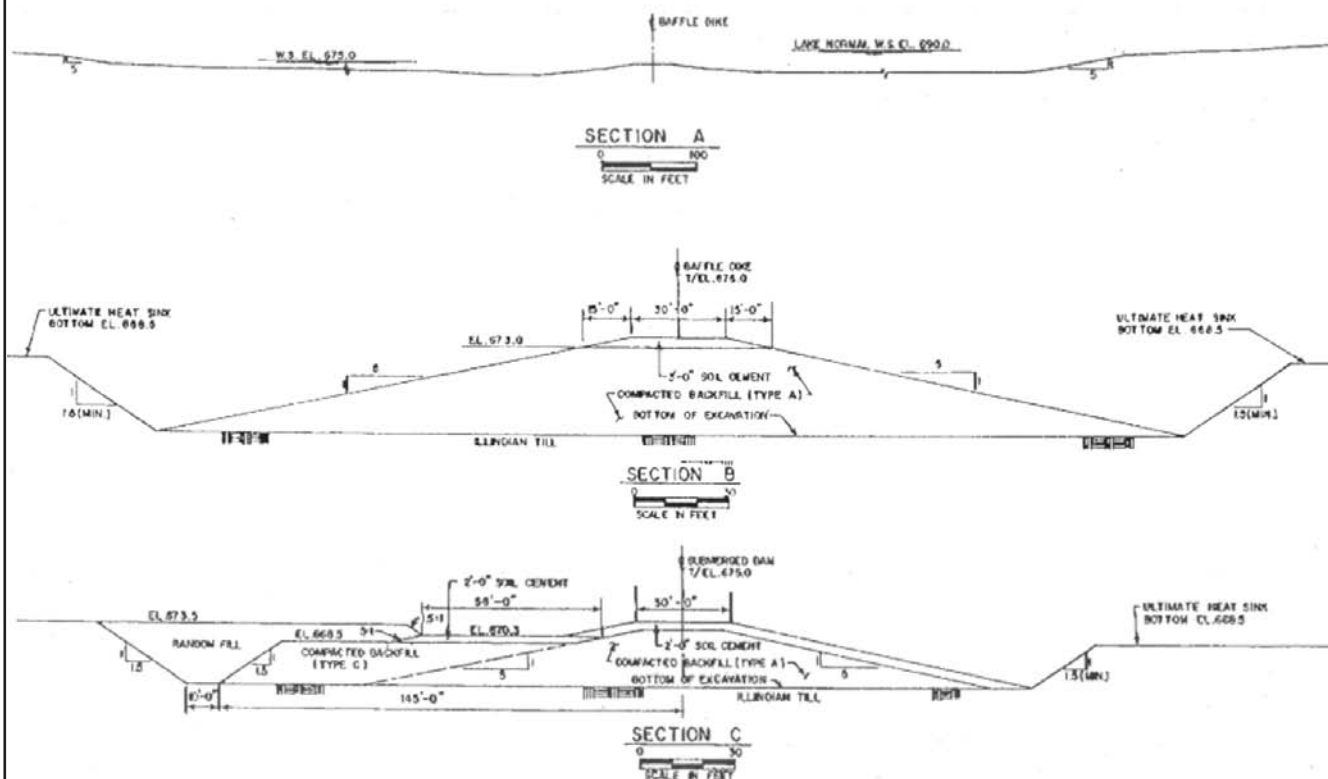
1. Topographic map of ultimate heat sink after construction (Oct. 17, 1977).
2. Refer to Figure 2.4-15 for sections.

Data Source:
CPS, 2002

Not to Scale

Figure 2.4-21
CPS Ultimate Heat Sink Sections

Legend



NOTES:
1. Refer to Figure 2.4-14 for sections.

Data Source:
CPS, 2002

Not to Scale